

AMENDMENT TO THE CLAIMS

1. (Currently Amended) A print layout device, which serves as a host computer, for providing a layout for a recording sheet and generating a print job to be sent to a printer, said print layout device comprising:

a margin setter adapted to set a margin for a sheet;

a spooler adapted to spool drawing commands based on a print request provided by an application in a memory;

a data ~~re-sizer~~ re-calculator adapted to ~~re-size by operation on~~ re-calculate position and distance data associated with the drawing commands spooled by said spooler in the memory ~~for in~~ each logical page provided by the application, in consonance with a printable area of a physical page obtained based on the margin set by said margin setter; and

a print job generator adapted to generate a print job comprising at least one printer control command based on the drawing commands ~~re-sized~~ and the position and distance data re-calculated by said data ~~re-sizer~~ re-calculator,

wherein said margin setter is capable of setting a binding margin adjacent to a center line in a sheet such that the sheet is folded along a line in the binding margin for bookbinding, and said data ~~re-sizer~~ re-calculator re-calculates the position and distance data ~~performs a process for arranging the re-sized drawing commands~~, such that data generated based on the ~~re-sized~~ re-calculated position and distance data and the drawing commands are arranged ~~in on~~ the printable area based on the binding margin.

2. to 57. (Cancelled)

58. (Currently Amended) A print layout device, which serves as a host computer, for providing a layout for a recording sheet and generating a print job to be sent to a printer, said print layout device comprising:

margin setting means, for setting a margin for a sheet;

spooling means to spool drawing commands based on a print request provided by an application in a memory;

data ~~re-sizing~~ re-calculating means for ~~re-sizing by operation on re-calculating position and distance data associated with~~ the drawing commands spooled by said spooling means in the memory ~~for in~~ each logical page provided by the application, in consonance with a printable area of a physical page obtained based on the margin set by said margin setting means; and

generating means for generating a print job comprising at least one printer control command based on the drawing commands ~~re-sized~~ and the position and distance data re-calculated by said data ~~re-sizing~~ re-calculating means,

wherein said margin setting means is also for setting a binding margin adjacent to a center line in a sheet such that the sheet is folded along a line in the binding margin for bookbinding, and said data ~~re-sizing~~ re-calculating means re-calculates the position and distance data ~~is also for performing a process for arranging the re-sized drawing commands~~ such that data generated based on the ~~re-sized~~ re-calculated position and distance data and the drawing commands are arranged ~~in on~~ the printable area based on

the binding margin.

59. (Currently Amended) A print layout method for providing a layout for a recording sheet and generating print job to be sent to a printer, said print layout method comprising the steps of:

setting a margin for a sheet;

spooling drawing commands based on a print request provided by an application in a memory;

~~re-sizing by operation on~~ re-calculating position and distance data associated with the drawing commands spooled by said spooler in the memory ~~for in~~ each logical page provided by the application, in consonance with a printable area of a physical page obtained based on the margin set in said margin setting step; and

generating a print job sent to a printer comprising at least one printer control command based on the drawing commands ~~re-sized~~ and the position and distance data re-calculated in said data ~~re-sizing~~ re-calculating step,

wherein said margin setting step includes setting a binding margin adjacent to a center line in a sheet such that the sheet is folded along a line in the binding margin for bookbinding, and said data ~~re-sizing~~ re-calculating step re-calculates the position and distance data ~~includes performing a process for arranging the re-sized drawing commands~~ such that data generated based on ~~re-sized~~ re-calculated position and distance data and the drawing commands are arranged ~~in~~ on the printable area based on the binding margin.

60. (Currently Amended) A print layout program for providing a layout for a recording sheet and generating a print job to be sent to a printer, said print layout program comprising:

program code for setting a margin for a sheet;

program code for spooling drawing commands based on a print request provided by an application in a memory;

program code for ~~re-sizing by operation on~~ re-calculating position and distance data associated with the drawing commands spooled by said spooler in the memory ~~for in~~ each logical page provided by the application, in consonance with a printable area of a physical page obtained based on the margin set by execution of said program code for margin setting; and

program code for generating a print job sent to a printer comprising at least one printer control command based on the drawing commands ~~re-sized~~ and the position and drawing data re-calculated by execution of said program code for data ~~re-sizing~~ re-calculating,

wherein said program code for margin setting also effects setting of a binding margin adjacent to a center line in a sheet such that the sheet is folded along a line in the binding margin for bookbinding, and said program code for data ~~re-sizing~~ re-calculating re-calculates the position and distance data ~~also effects performing a process for~~ ~~arranging the re-sized drawing commands~~ such that data generated based on the ~~re-sized~~ re-calculated position and distance data and the drawing commands are arranged in ~~on~~ the printable area based on the binding margin.

61. (Currently Amended) A memory medium storing computer executable instructions for performing a print layout method for providing a layout for a recording sheet and generating a print job to be sent to a printer, said print layout method comprising the steps of:

setting a margin for a sheet;

spooling drawing commands based on a print request provided by an application in a memory;

~~re-sizing by operation on~~ re-calculating position and distance data associated with the drawing commands spooled by said spooler in the memory ~~for~~ in each logical page provided by the application, in consonance with a printable area of a physical page obtained based on the margin set in said margin setting step; and

generating a print job sent to a printer comprising at least one printer control command based on the drawing commands ~~re-sized~~ and the position and distance data re-calculated in said data ~~re-sizing~~ re-calculating step,

wherein said margin setting step includes setting a binding margin adjacent to a center line in a sheet such that the sheet is folded along a line in the binding margin for bookbinding, and said data ~~re-sizing~~ re-calculating step re-calculates the position and distance data ~~includes performing a process for arranging the re-sized drawing commands~~ such that data generated based on the ~~re-sized~~ re-calculated position and distance data and the drawing commands are arranged on the printable area based ~~in~~ on the binding margin.

62. (Currently Amended) A print layout device, which serves as a host

computer for providing a layout for a recording sheet and generating a print job to be sent to a printer, said print layout device comprising:

a margin setter adapted to set a margin for a sheet;

a spooler adapted to spool drawing commands based on a print request provided by an application in a memory;

a data ~~re-sizer~~ re-calculator adapted to ~~re-size by operation on~~ re-calculate position and distance data associated with the drawing commands spooled by said spooler in the memory ~~for~~ in each logical page provided by the application, in consonance with a printable area of a physical page obtained based on the margin set by said margin setter; and

a print job generator adapted to generate a print job comprising at least one printer control command by a physical page unit, based on the drawing commands ~~re-sized~~ and the position and distance data re-calculated by said data ~~re-sizer~~ re-calculator,

wherein, when the ~~re-sized~~ drawing commands correspond to a plurality of logical pages to be printed on one sheet, said data ~~re-sizer~~ re-calculator is adapted to perform ~~performs~~ a process for recalculating the position and distance data associated with the arranging the re-sized drawing commands for each of the plurality of logical pages such that data generated based on the ~~re-sized~~ re-calculated position and distance data and the drawing commands are centered in ~~on~~ the printable area.

63. (Currently Amended) A print layout device, which serves as a host computer, for providing a layout for a recording sheet and generating a print job to be sent

to a printer, said print layout device comprising:

margin setting means for setting a margin for a sheet;

spooling means adapted to spool drawing commands based on a print request provided by an application in a memory;

data ~~re-sizing~~ re-calculating means for ~~re-sizing by operation on re-calculating position and distance data associated with~~ the drawing commands spooled by said spooler in the memory ~~for in~~ each logical page provided by the application, in consonance with a printable area of a physical page obtained based on the margin set by said margin setting means; and

generating means for generating a print job comprising at least one printer control command by a physical page unit, based on the drawing commands ~~re-sized~~ and the position and distance data re-calculated by said data ~~re-sizing~~ re-calculating means,

wherein, when the ~~re-sized~~ drawing commands correspond to a plurality of logical pages to be printed on one sheet, said data ~~re-sizing~~ re-calculating means performs ~~is also for performing~~ a process for ~~arranging the re-sized~~ re-calculating the position and distance data associated with the drawing commands for each of the plurality of logical pages such that data generated based on the ~~re-sized~~ re-calculated position and distance data and the drawing commands are centered in ~~on~~ the printable area.

64. (Currently Amended) A print layout method for providing a layout for a recording sheet and generating a print job to be sent to a printer, said print layout method comprising the steps of:

setting a margin for a sheet;

spooling drawing commands based on a print request provided by an application in a memory;

~~re-sizing by operation on~~ re-calculating position and distance data associated with the drawing commands spooled by said spooler in the memory in each logical page provided by the application, in consonance with a printable area of a physical page obtained based on the margin set in said margin setting step; and

generating a print job comprising at least one printer control command by a physical page unit, based on the drawing commands ~~re-sized~~ and the position and distance data re-calculated in said data ~~re-sizing~~ re-calculating step,

wherein, when the ~~re-sized~~ drawing commands correspond to a plurality of logical pages to be printed on one sheet, said data ~~re-sizing~~ re-calculating step includes performing a process for ~~arranging the re-sized~~ re-calculating the position and distance data associated with the drawing commands for each of the plurality of logical pages such that data generated based on the ~~re-sized~~ re-calculated position and distance data and the drawing commands are centered in ~~on~~ the printable area.

65. (Currently Amended) A print layout program for providing a layout for a recording sheet and generating a print job to be sent to a printer, said print layout program comprising:

program code for setting a margin for a sheet;

program code for spooling drawing commands based on a print request

provided by an application in a memory;

program code for ~~re-sizing by operation on~~ re-calculating position and distance data associated with the drawing commands spooled by said spooler in the memory for in each logical page provided by the application, in consonance with a printable area of a physical page obtained based on the margin set by execution of said program code for margin setting; and

program code for generating a print job comprising at least one printer control command by a physical page unit, based on the drawing commands ~~re-sized~~ and the position and distance data re-calculated by execution of said program code for data ~~re-sizing~~ re-calculating,

wherein, when the ~~re-sized~~ drawing commands correspond to a plurality of logical pages to be printed on one sheet, said program code for data ~~re-sizing~~ re-calculating also effects a process for ~~arranging the re-sized~~ re-calculating the position and distance data associated with the data commands for each of the plurality of logical pages such that data generated based on the ~~re-sized~~ re-calculated position and distance data and the drawing commands are centered in ~~on~~ the printable area.

66. (Currently Amended) A memory medium storing computer executable instructions for performing a print layout method for providing a layout for a recording sheet and generating a print job to be sent to a printer, said print layout method comprising the steps of:

setting a margin for a sheet;

a spooler adapted to spool drawing commands based on a print request provided by an application in a memory;

~~re-sizing by operation on~~ re-calculating position and distance data associated with the drawing commands spooled by said spooler in the memory ~~for~~ in each logical page provided by the application, in consonance with a printable area of a physical page obtained based on the margin set in said margin setting step; and

generating a print job comprising at least one printer control command by a physical page unit, based on the drawing commands ~~re-sized~~ and the position and distance data re-calculated in said data ~~re-sizing~~ re-calculating step,

wherein, when the ~~re-sized~~ drawing commands correspond to a plurality of logical pages to be printed on one sheet, said data ~~re-sizing~~ re-calculating step includes performing a process for re-calculating the position and distance data associated with the arranging the re-sized drawing commands for each of the plurality of logical pages such that data generated based on the ~~re-sized~~ re-calculated position and distance data and the drawing commands are centered in ~~on~~ the printable area.